

CLAIMS

I claim:

1. A filter (A) for a water purifier, including a head (100) which is defined with a guide passage (120) for guiding fluid introduced into the head (100) through an inlet port (110) and has an outlet port (130) for discharging purified fluid to the outside, and a filter body (200) which is threadedly locked to the head (100) into which the fluid flows through the guide passage (120) communicated with the inlet port (110) of the head (100), and which purifies the fluid flowing therein and transfers purified fluid to the outlet port (130) of the head (100), the filter comprising:

fluid flow interruption means comprising an elastic spring (400);

a fluid flow interrupter (300) disposed in the guide passage (120) communicated with the inlet port (110), and having a fluid guide rod (310) which is formed at one end of the fluid flow interrupter (300) and an opening and closing body (320) which is connected at one end thereof to the fluid guide rod (310) and has a diameter gradually decreasing in a downward direction around which an O-ring (321) is fitted and from the other end of which an opening and closing projection (322) is formed, the fluid flow interrupter functioning to controllably open and close the guide passage (120) by force of the elastic spring (400) when the head (100) and the filter body (200) are coupled to and un-coupled from each other; and

at least one through-hole (210) defined on an upper end of the filter body (200) so that fluid having passed through the guide passage (120) communicated with the inlet port (110) can flow through the through-hole into the filter body (200),

wherein a hollow cylindrical protuberance (121) which has an inner diameter greater than an outer diameter of the fluid guide rod (310) of the fluid flow interrupter (300) is formed at one end of

the guide passage (120), the other end of the guide passage (120) has an inner diameter gradually decreasing in the downward direction, and the elastic spring (400) has one end through which the fluid guide rod (310) of the fluid flow interrupter (300) is inserted and the other end which is fitted around the hollow cylindrical protuberance (121).

2. The filter (A) is set forth in claim 1, further comprising a bracket (500) having one end which is coupled to an outer surface of the head (100) and the other end which is fastened to a wall.